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Applicant: **Wojskowa Akademia Techniczna**
PL-01-489 Warszawa-49(PL)

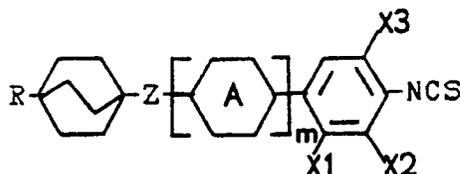
Inventor: **Dabrowski, Roman**

ul. Buska 40
P-02-924 Warszawa(PL)
Inventor: **Dziaduszek, Jerzy**
ul. Mlynarska 30a m. 26
P-01-171 Warszawa(PL)
Inventor: **Drzewinski, Witold**
ul. Tomcia Palucha 6 m. 12
P-02-495 Warszawa(PL)
Inventor: **Szczucinski, Tomasz**
ul. Rozlogi 9 m. 4
P-01-310 Warszawa(PL)

Representative: **von Fünér, Alexander, Dr. et al**
Patentanwälte v. Fünér, Ebbinghaus, Finck
Mariahilfplatz 2 & 3
D-8000 München 90(DE)

Liquid crystalline compounds containing the bicyclo[2,2,2]-octane ring and the phenylisothiocyanate group, their manufacturing and liquid crystalline mixtures containing same.

New liquid crystalline compounds containing the bicyclo[2,2,2]octane ring and the phenylisothiocyanate group in their molecules of the general formula 1:



1

EP 0 309 870 A3

wherein: R is a normal or branched alkyl $H_{2n+1}C_n$ - or alkenyl $H_{2n-1}C_n$ - group containing up to 15 carbon atoms, some of the hydrogen atoms in the alkyl chain being sometimes substituted by a fluorine atom, Z is a single bond or -COO-, -OOC-, -CH₂O- or -C≡C- group, the ring A is a 1,4-disubstituted benzene ring or 2,5-disubstituted pyrimidine ring or a 2,5-disubstituted pyridine ring or a 2,5-disubstituted 1,3-dioxane ring, m stands an integer 0 or 1, X1, X2 and X3 are identical or different and each of them denotes a hydrogen atom or a fluorine atom or a chlorine atom or a bromine atom or a cyano group, however, if m = 1 and the ring A is not a benzene ring then Z is also a -CH₂CO-, -CO-CH₂-, -CH=CH-, -CHYCH₂-, -CH₂-CHY-, -C₆H₄-CH₂-CHY-, -C₆H₄-CHY-CH₂-, or C₆H₄-C≡C- group where Y is a hydrogen atom or a fluorine atom or a chlorine atom or a cyano group or a methoxy group or a hydroxy group are prepared and used as component of liquid crystal mixture. Method manufacturing of compounds 1, the liquid crystal mixture containing compounds 1 and their use for electrooptical devices are described.



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
Y	EP-A-0 227 004 (UNITRA POLKOLOR) * Claims * ---	1,14	C 07 C 161/04 C 09 K 19/32 C 09 K 19/34
Y	DE-A-3 323 378 (BBC AG) * Claims * -----	1,14	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			C 09 K 19/00 C 07 C 161/00
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 16-08-1990	Examiner OUSSET J-B.
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			